

AUTOMOTIVE VEHICLE WITH LATERAL IMPACT SEAT DISPLACEMENT SYSTEM

Abstract

An automotive vehicle having a passenger cabin includes a floorpan with seats mounted to the floorpan. Side closure structures adjoin the outboard ends of the seats. Seat displacement members located within the side closure structures load the outboard ends of the seats so as to deform the seat frames and floorpan. This moves the affected seat laterally inward with respect to a longitudinal center plane of the vehicle in the event of a laterally directed impact load against the closure structure. As a result, the pelvic region of the occupant will be the first region of the occupant to be dynamically loaded by the side closure structure.